

ABSTRACT OF THE DISCLOSURE

A hydrogen storage alloy is provided which has an extremely low Co content, and can maintain the drain (power) performance (especially pulse discharge characteristics), activity (degree of activity), and life performance at high levels. The hydrogen storage alloy is manufactured by weighing and mixing every material for the hydrogen storage alloy so as to provide an alloy composition represented by the general formula $MmNi_aMn_bAl_cCo_d$ or $MmNi_aMn_bAl_cCo_dFe_e$, and controlling the manufacturing method and manufacturing conditions so that both the a-axis length and the c-axis length of the crystal lattice are in a predetermined range. Although it is sufficient if the a-axis length of the crystal lattice is 499 pm or more and the c-axis length is 405 pm or more, by further specifying the a-axis length and c-axis length depending on the values of AB_x, a hydrogen storage alloy having high durability can be provided.